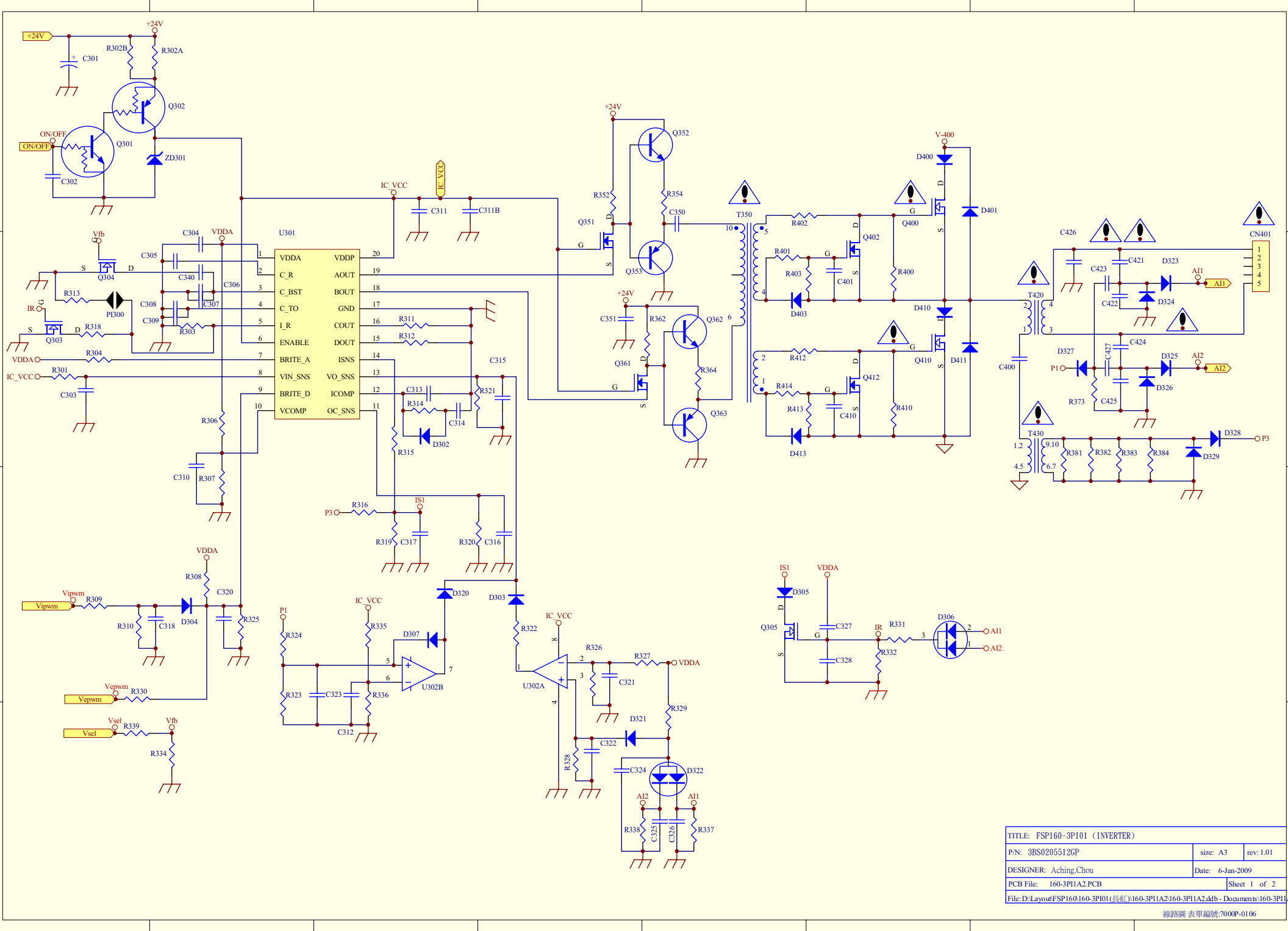
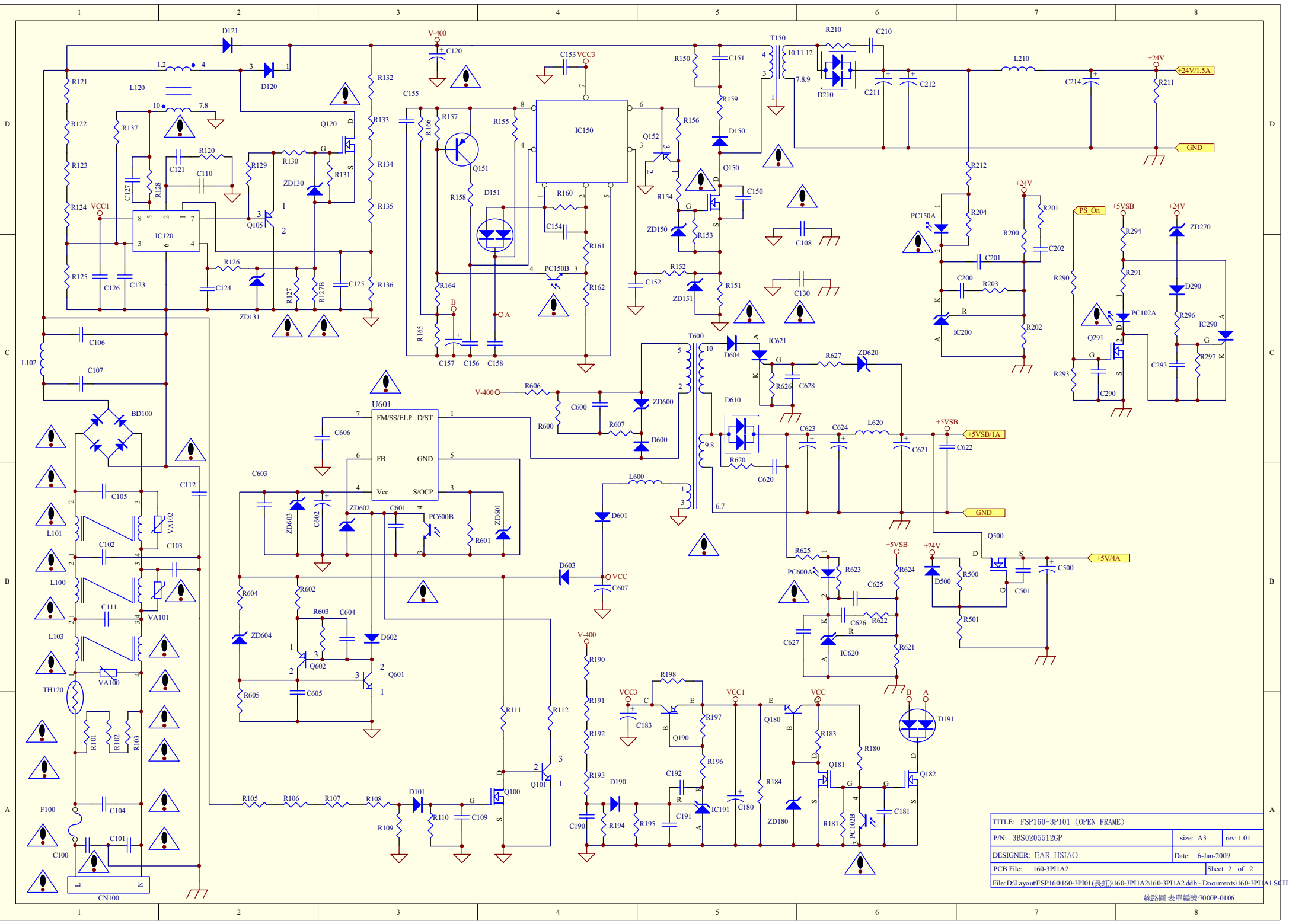


D
C
B
A



TITLE: FSP160-3P101 (INVERTER)		
P/N: 3BS0205512GP	size: A3	rev: 1.01
DESIGNER: Aching.Chou	Date: 6-Jan-2009	
PCB File: 160-3P1A2.PCB	Sheet 1 of 2	
File: D:\Layout\FSP160-160-3P101(長虹)\160-3P1A2\160-3P1A2.ddb - Documents\160-3P1A1(I).Sch		

D
C
B
A



MODEL:

FSP160-3PI01, FSP250-3PI03

1 of 2

COMPONENT	COMP. NO.	MANUFACTURER	TYPE	TECHNICAL DATA	CCC NO.	UL FILE NO.	CSA FILE NO.
Conector	CN100	JOWLE TECHNOLOGY CO., LTD.	A3963W SERIES	250Vac, 7A	--	E200817	VDE
		TAIWAN KING PIN	PVHI	250Vac, 6/7A	--	E164798	VDE
		JST	VH	250Vac, 7A	--	E60389	VDE
BRIDGE DIODE	BD100 for FSP160-3PI01	VARIOUS	VARIOUS	Min. 4A, Min. 600V	--	--	--
	BD100 for FSP2500-3PI03	VARIOUS	VARIOUS	Min. 8A, Min. 800V	--	--	--
FUSE	F100 (FSP160-3PI01)	Littlefuse	215	T4AH/250V	2002010207007593	E10480	VDE
		Walter	TSC	T4AH/250V	2002010207023043	E56092	VDE
		BEL	5HT	T4AH/250V	--	E20624	VDE
		Conquer	UDA	T4AH/250V	2002010207027084	E82636	VDE
		Cooper Bussmann Inc	S505	T4AH/250V	--	E19180	VDE
	F100 (FSP250-3PI03)	Littlefuse	215	T6.3AH/250V	2002010207007593	E10480	VDE
		Walter	TSC	T6.3AH/250V	2002010207023043	E56092	VDE
		BEL	5HT	T6.3AH/250V	--	E20624	VDE
		Conquer	UDA	T6.3AH/250V	2002010207027084	E82636	VDE
		Cooper Bussmann Inc	S505	T6.3AH/250V	--	E19180	VDE
Thermistor (OPTIONAL)	TH120	VARIOUS	VARIOUS	Max. 2.5Ω, 8A Min.	--	--	--
X-CAPACITOR (OPTIONAL)	C104, C105, C107	ARCOTRONIC ITALIA S.P.A.	R.46/ R.49	0.22uF Max./ Min. 250V	CQC03001008842	E97797	ENEC
		ISKRA KONDENZATORJI D D	KNB1560/KNB1563	0.22uF Max./ Min. 250V	CQC04001011746	E103619	VDE
		ISKRA KONDENZATORJI D D	KNB1562/KNB1530	0.22uF Max./ Min. 250V	CQC04001011746	E103619	VDE
		VISHAY ELECTRONIC GMBH	F1772	0.22uF Max./ Min. 250V	--	E100682	VDE
		VISHAY ELECTRONIC GMBH	F1778-xxx-x2xxx	0.22uF Max./ Min. 250V	--	E100682	VDE
		MATSUSHITA ELECTRIC INDUSTRIAL CO LTD	ECQUG	0.22uF Max./ Min. 250V	--	E79502	VDE
		OKAYA ELECTRIC INDUSTRIES CO LTD	PA/RE setries	0.22uF Max./ Min. 250V	--	E47474	VDE
		OKAYA ELECTRIC INDUSTRIES CO LTD	LE setries	0.22uF Max./ Min. 250V	CQC03001006331	E47474	ENEC
		ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	0.22uF Max./ Min. 250V	CQC03001003067	E183780	VDE
		TEAPO ELECTRONIC CORP	XG-H	0.22uF Max./ Min. 250V	CQC03001003767	E81959	VDE
		CARLI ELECTRONICS CO LTD	MPX	0.22uF Max./ Min. 250V	CQC03001007996	E120045	VDE
		SHINY SPACE ENTERPRISE CO LTD	SX1	0.22uF Max./ Min. 250V	--	E186561	VDE
		HUA JUNG COMPONENTS CO LTD	MKP	0.22uF Max./ Min. 250V	--	E0149057	ENEC
		CHIEFCON ELECTRONICS CO LTD	CKX	0.22uF Max./ Min. 250V	--	E209251	VDE
		CHENG TUNG INDUSTRIAL CO LTD	CTX series	0.22uF Max./ Min. 250V	--	E193049	VDE
Bridging Cap (Y1 type) (Optional)	Max. 100pF for C100, C101; Max. 1000pF for C108, Max. 470pF for C102, C103, C130 (FSP160-3PI01)	MURATA MFG. CO., LTD.	KX	250V/ 125°C/ Y1 Cap	--	E37921	VDE
		MUATSUSHITA	NS-A	250V/ 125°C/ Y1 Cap	--	E62674(N)	VDE
		TDK CORPORATION	CD	250V/ 125°C/ Y1 Cap	CQC03001004816	E37861	VDE
		PAN OVERSEAS	YV	250V/ 125°C/ Y1 Cap	CQC03001003673	E146544	VDE
		VISHAY/DRALORIC	VY1	250V/ 125°C/ Y1 Cap	--	E183844	VDE
		SUCCESS ELECTRONICS CO LTD	SE/SB	250V/ 125°C/ Y1 Cap	CQC02001001788	E124280	VDE
	Max. 100pF for C100; Max 1000pF for C108; Max. 2200pF for C112; Max. 470pF for C130 (FSP250-3PI03)	MURATA MFG. CO., LTD.	KX	250V/ 125°C/ Y1 Cap	--	E37921	VDE
		MUATSUSHITA	NS-A	250V/ 125°C/ Y1 Cap	--	E62674(N)	VDE
		TDK CORPORATION	CD	250V/ 125°C/ Y1 Cap	CQC03001004816	E37861	VDE
		PAN OVERSEAS	AH	250V/ 125°C/ Y1 Cap	CQC03001003673	E146544	VDE
		VISHAY/DRALORIC	VY1	250V/ 125°C/ Y1 Cap	--	E183844	VDE
		SUCCESS ELECTRONICS CO LTD	SE/SB	250V/ 125°C/ Y1 Cap	CQC02001001788	E124280	VDE
BLEEDER RESISTOR	R101, R102, R103 (FSP160-3PI01)	VARIOUS	SMD,1206	750KΩ, Min. 1/4W	--	--	--
	R101, R102, R103 (FSP250-3PI03)	VARIOUS	SMD,1206	390KΩ, Min. 1/4W	--	--	--
VARISTOR (OPTIONAL)	VA100	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR14621	395Vac, 510Vdc	CQC03001005185	E186499	VDE
		SONG LONG ELECTRONICS CO LTD	SAS-621KD14	385Vac, 505Vdc	--	E162455	VDE
		MAIDA DEVELOPMENT CO	Z391-85UL	390Vac, 505Vdc	--	E38785	VDE
		SUCCESS ELECTRONICS CO LTD	SVR-14D621K	385Vac, 505Vdc	--	E114280	VDE
		PAN OVERSEAS ELECTRONIC CO LTD	PVR-14D621K	385Vac, 505Vdc	--	E146544	--
PFC Mosfet	Q120 (FSP160-3PI01)	VARIOUS	VARIOUS	600V Min, 10A Min.	--	--	--

	Q120 (FSP250-3PI03)	VARIOUS	VARIOUS	600V Min, 21A Min.	--	--	2009/19
PFC Current Resistor	R127	VARIOUS	VARIOUS	0.15Ω, Min. 2W	--	--	2 of 2
	R127B	VARIOUS	VARIOUS	0.12Ω, Min. 2W	--	--	--
Main Mosfet	Q150	VARIOUS	VARIOUS	800V Min, 6.6A Min.	--	--	--
Main Current Resistor	R151	VARIOUS	VARIOUS	0.68Ω, Min. 2W	--	--	--
PWM IC	U601	VARIOUS	VARIOUS	Min. 3.2A, min. 650V	--	--	--
ELE-CAPACITOR	C120 (FSP160-3PI01)	VARIOUS	VARIOUS	150uF-270uF 450V/ 105 °C Min.	--	--	--
	C120 (FSP250-3PI03)	VARIOUS	VARIOUS	180uF-270uF 450V/ 105 °C Min.	--	--	--
LINE CHOKE (Optional)	L100, L101 (FSP160-3PI01)	SPI	8LM00354	class 130°C	--	--	--
	L100, L101 (FSP250-3PI03)	SPI	8LM00855	class 130°C	--	--	--
	L102 (FSP160-3PI01)	SPI	8LM01076	class 130°C	--	--	--
	L102 (FSP250-3PI03)	SPI	8LM01059	class 130°C	--	--	--
PFC CHOKE	L120 (FSP160-3PI01)	SPI	8TI00490	class 130°C	--	--	--
	L120 (FSP250-3PI03)	SPI	8TI00489	class 130°C	--	--	--
	Bobbin	Sumitomo	PM-9820	94V-0	--	UL94	--
POLYESTER Cap in PRIMARY	C106	NISSEI	MMX Series	1 uF Max, 450V Min, 105°C Min	--	--	Nemko
		HJC	MFTD	1 uF Max, 450V Min, 105°C Min	--	--	Nemko
		NITSUKO	MDST series	1 uF Max, 450V Min, 105°C Min	--	--	Nemko
		Taiwan Tai Yang Electronic Co Ltd	PM Series	1 uF Max, 450V Min, 105°C Min	--	--	Nemko
		SungHo Electronic Co Ltd	MPE Series	1 uF Max, 450V Min, 105°C Min	--	--	--
		Taiwan Tai Yang Electronic Co Ltd	MM Series	1 uF Max, 450V Min, 105°C Min	--	--	Nemko
TRANSFORMER	T150 (FSP160-3PI01)	SPI	8TD00475	class B	--	--	--
	T150 (FSP250-3PI03)	SPI	8TG00468	class B	--	--	--
	Bobbin	Chang Chun	T375J	94V-0	--	UL94	--
	T600	SPI	8TB00161	Class B	--	--	--
	Bobbin	Chang Chun	T375J	94V-0	--	UL94	--
	Triple Wire	Great Leoflon	TRW(B)	class 130°C	--	--	--
	T350	SPI	8TA00267	Class B	--	--	--
	Bobbin	Chang Chun	T375J	94V-0	--	UL94	--
	Triple Wire	Great Leoflon	TRW(B)	class 130°C	--	--	--
	T420 (FSP160-3PI01)	SPI	8TT00105	Class B	--	--	--
	Bobbin	Sumitomo	E4008	94V-0	--	UL94	--
	T430 (FSP160-3PI01)	SPI	8TA00350	Class B	--	--	
	Bobbin	Chang Chun	T375J	94V-0	--	UL94	
	Triple Wire	Great Leoflon	TRW(B)	class 130°C	--	--	
	T420, T430 (FSP250-3PI03)	SPI	8TC00479	Class B	--	--	
	Bobbin	EI DUPONT	FR530	94V-0	--	UL94	--
PHOTOCOUPLER	PC102	TOSHIBA CORPORATION LTD.	TLP721	4000V	--	E67349(N)	VDE
	PC150	VISHAY	SFH617A-	4420V	--	E52744	VDE
	PC600	LITE-ON ELECTRONIC CO., LTD.	LTV-817	5000V	--	E113898(S)	VDE
		SHARP CORPORATION	PC123	5000V	--	E64380(S)	VDE
		FAIRCHILD SEMICONDUCTOR	H11A817	6000V	--	E90700	VDE
		COSMOS ELECTRONICS	K1010/C1010	5000V	--	CQC04001010530	E169586
		MATSUSHITA ELECTRONIC CO., LTD.	ON3171	5000V	--	E79920(M)	VDE
		VISHAY	TCET1108/TCET1109	5000V	--	E76222	VDE
		VISHAY	TCET1103	5000V	--	E76222	VDE
		NEC	PS2561 SERIES	5000V	--	E72422	VDE
					--		
MAIN BOARD	--	VARIOUS	VARIOUS	94V-0 or better, 130°C min.	--	--	--

Prepared:

Designed:

Purchased: